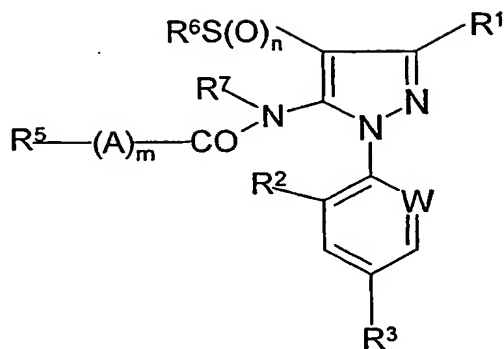


CLAIMS

1. A compound of formula (I):



(I)

wherein:

R¹ is (C₁-C₆)-haloalkyl, CN, NO₂ or halogen;

R² is H, halogen or CH₃;

R³ is (C₁-C₃)-haloalkyl, (C₁-C₃)-haloalkoxy or S(O)_p-(C₁-C₃)-haloalkyl;

W is N or C-R⁴;

R⁴ is halogen or CH₃;

A is (C₂-C₆)-alkylene or (C₂-C₆)-haloalkylene;

or is (C₃-C₆)-alkylene in which a carbon in the chain is replaced by O, S, SO, SO₂ or NR⁸ with the proviso that the replacing group is not bonded to the adjacent R⁵ or carbonyl group; or is

(C₂-C₆)-alkenylene or (C₂-C₆)-haloalkenylene; or is

-[(C₁-C₃)-alkyl]_r-aryl-[(C₁-C₃)-alkyl]_s-, or -[(C₁-C₃)-alkyl]_r-heterocyclyl-[(C₁-C₃)-alkyl]_s-, or -[(C₁-C₃)-alkyl]_r-(C₃-C₆)-cycloalkyl-[(C₁-C₃)-alkyl]_s- or

-[(C₁-C₃)-alkyl]_r-(C₅-C₆)-cycloalkenyl-[(C₁-C₃)-alkyl]_s-, in which last four mentioned groups the aryl, heterocyclyl, cycloalkyl and cycloalkenyl are unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, OR¹¹, CN, NO₂, S(O)_pR¹⁰, COR¹⁰, COOR¹⁰, CONR⁹R¹⁰, SO₂NR⁹R¹⁰, NR⁹R¹⁰, OH, SO₃H and (C₁-C₆)-alkylideneimino;

R⁵ is CONR⁹R¹⁰ or CO₂R¹⁰ when m is 0 or 1; or R⁵ is NR⁹R¹⁷ when m is 1;

R⁶ is (C₁-C₃)-alkyl or (C₁-C₃)-haloalkyl;

R^7 is H, (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₂-C₆)-haloalkynyl, (C₃-C₇)-cycloalkyl, COR¹¹, COR¹², COR¹³, -CO₂-(C₁-C₆)-alkyl, -CO₂-(CH₂)_qR¹¹, -CO₂-(CH₂)_qR¹³, -CO₂-(C₃-C₇)-cycloalkyl, -CO₂-(C₁-C₆)-alkyl-(C₃-C₇)-cycloalkyl, CO-(C₂-C₆)-alkenyl, -CH₂R¹¹ or CH₂R¹³; or (C₁-C₆)-alkyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₃-C₇)-cycloalkyl, S(O)_pR¹⁴, CO₂-(C₁-C₆)-alkyl, -O(C=O)-(C₁-C₆)-alkyl, NR⁹R¹⁰, CONR⁹R¹⁰, SO₂NR⁹R¹⁰, OH, CN, NO₂, OR¹¹, OR¹³, NR¹⁰COR⁹, NR¹⁰SO₂R¹⁴ and COR¹²;

R^8 is R⁹, CO-R⁹, CO-R¹¹, CO₂R¹² or CO-(C₁-C₆)-alkyl substituted by amino;

R^9 is H, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₂-C₆)-haloalkynyl, (C₃-C₇)-cycloalkyl or -(C₁-C₆)-alkyl-(C₃-C₇)-cycloalkyl;

R^{10} is R⁹, -[(C₁-C₆)-alkyl]_q-R¹¹, (C₁-C₃)-alkoxy-(C₁-C₃)-alkyl-, (C₁-C₃)-alkoxy-(C₁-C₃)-alkoxy-(C₁-C₃)-alkyl- or (C₁-C₃)-alkyl-S(O)_p-(C₁-C₃)-alkyl-; or R⁹ and R¹⁰ or R⁹ and R¹⁷ each together with the respective attached N atom form a four- to seven-membered saturated ring which optionally contains an additional hetero atom in the ring which is selected from O, S and N, the ring being unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl and CO₂-(C₁-C₆)-alkyl;

R^{11} is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, OR¹⁶, CN, NO₂, S(O)_pR¹², COR⁹, COOH, COOR¹², CONR⁹R¹⁵, SO₂NR⁹R¹⁵, NR⁹R¹⁵, OH, SO₃H and (C₁-C₆)-alkylideneimino;

R^{12} is (C₁-C₆)-alkyl or (C₁-C₆)-haloalkyl;

R^{13} is heterocyclyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₁-C₄)-alkoxy, S(O)_pR¹², OH and oxo;

R^{14} is (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₃-C₇)-cycloalkyl or -(C₁-C₆)-alkyl-(C₃-C₇)-cycloalkyl;

R^{15} is H, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₃-C₇)-cycloalkyl or -(C₁-C₆)-alkyl-(C₃-C₇)-cycloalkyl;

R^{16} is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C_1-C_6) -alkyl, (C_1-C_6) -haloalkyl, (C_1-C_6) -alkoxy, (C_1-C_6) -haloalkoxy, CN, NO_2 , $S(O)_pR^{12}$, COR^{15} , $COOH$, $COOR^{12}$, $CONR^9R^{15}$, $SO_2NR^9R^{15}$, NR^9R^{15} and OH;

R^{17} is R^{10} , $CO_2(C_1-C_6)$ -alkyl, $-CH_2CO_2(C_1-C_6)$ -alkyl, $CO_2CH_2R^{18}$ or $CO(C_1-C_6)$ -alkyl;

R^{18} is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C_1-C_6) -alkyl, (C_1-C_6) -haloalkyl and (C_1-C_6) -alkoxy;

n and p are each independently 0, 1 or 2;

m and q are each independently 0 or 1;

r and s are each independently 0 or 1; and

each heterocyclyl in the above-mentioned radicals is independently a heterocyclic radical having 3 to 7 ring atoms and 1, 2 or 3 hetero atoms in the ring selected from the group consisting of N, O and S;

or a pesticidally acceptable salt thereof.

2. A compound or a salt thereof as claimed in claim 1 wherein:

R^{10} is R^9 , $-[(C_1-C_6)\text{-alkyl}]_qR^{11}$, (C_1-C_3) -alkoxy- (C_1-C_3) -alkyl- or (C_1-C_3) -alkoxy- (C_1-C_3) -alkoxy- (C_1-C_3) -alkyl-;

R^{17} is R^{10} , $CO_2(C_1-C_6)$ -alkyl, $CO_2CH_2R^{18}$ or $CO(C_1-C_6)$ -alkyl; and the other values are as defined in formula (I).

3. A compound or a salt thereof as claimed in claim 1 or 2 wherein R^1 is CN.

4. A compound or a salt thereof as claimed in claim 1, 2 or 3 wherein R^2 is Cl.

5. A compound or a salt thereof as claimed in any one of claims 1 to 4 wherein R^3 is CF_3 .

6. A compound or a salt thereof as claimed in any one of claims 1 to 5 wherein A is (C_1-C_6) -alkylene; or is (C_1-C_6) -alkylene in which a carbon in the chain is replaced by O, S, SO, SO_2 or NR^8 with the proviso that the replacing group is not bonded to the adjacent R^5 or carbonyl group; or is phenyl unsubstituted or substituted by one or

more radicals selected from the group consisting of halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₁-C₄)-alkoxy, CN and NO₂; or is pyridyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl and (C₁-C₄)-alkoxy.

7. A compound or a salt thereof as claimed in any one of claims 1 to 6 wherein R⁶ is CF₃.

8. A compound or a salt thereof as claimed in any one of claims 1 to 7 wherein R¹ is CN;

R² is Cl;

R³ is CF₃;

W is CR⁴ and R⁴ is Cl;

A is (C₁-C₆)-alkylene; or is (C₁-C₆)-alkylene in which a carbon in the chain is replaced by O, S, SO, SO₂ or NR⁸ with the proviso that the replacing group is not bonded to the adjacent R⁵ or carbonyl group; or is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₂)-alkyl, (C₁-C₂)-haloalkyl, (C₁-C₂)-alkoxy, CN and NO₂; or is pyridyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C₁-C₂)-alkyl, (C₁-C₂)-haloalkyl and (C₁-C₂)-alkoxy;

R⁵ is CONR⁹R¹⁰ or CO₂R¹⁰ when m is 0 or 1; or R⁵ is NR⁹R¹⁷ when m is 1;

R⁶ is (C₁-C₂)-alkyl or (C₁-C₂)-haloalkyl;

R⁷ is hydrogen or (C₁-C₂)-alkyl;

R⁸ is R⁹, CO-R⁹ or CO-R¹¹;

R⁹ is H or (C₁-C₆)-alkyl;

R¹⁰ is H, (C₁-C₆)-alkyl, (C₁-C₆)-haloalkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-haloalkenyl, (C₂-C₆)-alkynyl, (C₂-C₆)-haloalkynyl, (C₃-C₇)-cycloalkyl, -(C₁-C₆)-alkyl-(C₃-C₇)-cycloalkyl or -(CH₂)_qR¹¹; or

R⁹ and R¹⁰ together with the attached N atom form a five- or six-membered saturated ring which optionally contains an additional hetero atom in the ring which is selected from O, S and N, the ring being unsubstituted or substituted by one or more radicals selected from the group consisting of halogen and (C₁-C₂)-alkyl;

R^{11} is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C_1-C_2) -alkyl, (C_1-C_2) -haloalkyl, (C_1-C_2) -alkoxy, CN, NO_2 , $S(O)_pR^{12}$ and NR^9R^{15} ;

R^{12} is (C_1-C_2) -alkyl or (C_1-C_2) -haloalkyl;

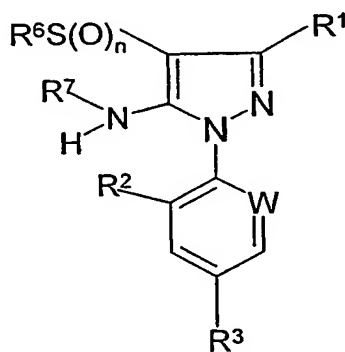
R^{15} is H, (C_1-C_2) -alkyl or (C_1-C_2) -haloalkyl;

R^{17} is R^{10} , $CO_2(C_1-C_2)$ -alkyl, $CO_2CH_2R^{18}$ or $CO(C_1-C_2)$ -alkyl; and

R^{18} is phenyl unsubstituted or substituted by one or more radicals selected from the group consisting of halogen, (C_1-C_2) -alkyl, (C_1-C_2) -haloalkyl and (C_1-C_2) -alkoxy.

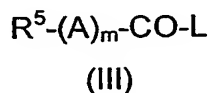
9. A process for the preparation of a compound of formula (I) or a salt thereof as defined in any one of claims 1 to 8, which process comprises:

a) where R^1 , R^2 , R^3 , R^5 , R^6 , R^7 , W, A, m and n are as defined in claim 1, reacting a compound of formula (II):



(II)

wherein R^1 , R^2 , R^3 , R^6 , R^7 , W and n are as defined in claim 1, with a compound of formula (III):



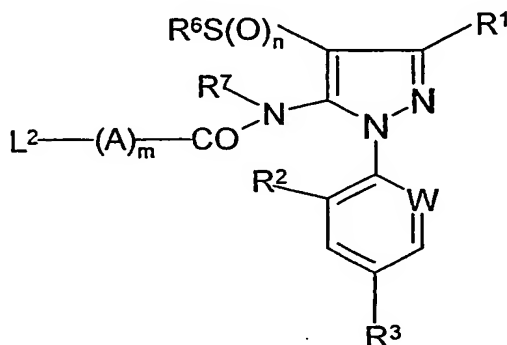
wherein R^5 , A and m are as defined in claim 1 and L is a leaving group; or

b) where R^1 , R^2 , R^3 , R^5 , R^6 , W, A, m and n are as defined in claim 1, and R^7 is as defined in claim 1 with the exclusion of hydrogen, the alkylation or acylation of the corresponding compound of formula (I) in which R^7 is hydrogen, with a compound of formula (IV):



wherein R^7 is as defined in claim 1 with the exclusion of hydrogen and L^1 is a leaving group; or

c) where R^1 , R^2 , R^3 , R^6 , R^7 , W , A and n are as defined in claim 1, R^5 is NR^9R^{10} and m is 1, the nucleophilic substitution of a corresponding compound of formula (V):



(V)

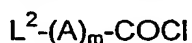
wherein R^1 , R^2 , R^3 , R^6 , R^7 , A , W and n are as defined in claim 1, m is 1 and L^2 is a leaving group, with a compound of formula (VI):



(VI)

wherein R^9 and R^{10} are as defined in claim 1; or

d) where R^1 , R^2 , R^3 , R^5 , R^6 , R^7 , W , A , L^2 , m and n are as defined in claim 1, the acylation of a compound of formula (II) with a compound of formula (VII):



(VII)

wherein L^2 , A and m are as defined in claim 1; or

e) where R^1 , R^2 , R^3 , R^5 , R^6 , R^7 , W , A and m are as defined in claim 1, and n is 1 or 2, oxidising a corresponding compound in which n is 0 or 1; and

f) if desired, converting a resulting compound of formula (I) into a pesticidally acceptable salt thereof.

10. A pesticidal composition comprising a compound of formula (I) or a pesticidally acceptable salt thereof as defined in any one of claims 1 to 8, in association with a pesticidally acceptable diluent or carrier and/or surface active agent.

11. The use of a compound of formula (I) or a salt thereof according to any one of claims 1 to 8 or of a composition according to claim 10, for the preparation of a veterinary medicament.

12. The use of a compound of formula (I) or a salt thereof according to any one of claims 1 to 8 or of a composition according to claim 10 for the control of pests.

13. A method for the control of pests at a locus which comprises the application of an effective amount of a compound of formula (I) or a salt thereof according to any one of claims 1 to 8 or of a composition according to claim 10.